



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276

RENEE CIPRIANO, DIRECTOR

217/785-8726

EPA Region 5 Records Ctr.



202615

April 4, 2002

Ms. Carol A. Ropski
United States Environmental Protection Agency (Region 5)
Enforcement Specialist
77 W. Jackson Blvd.
Chicago, Illinois 60604

Refer to: LPC# 0430305282--Dupage County
Downers Grove/Downers Grove Groundwater Investigation
Superfund/HRS

Dear Ms. Ropski:

The Illinois Environmental Protection Agency (Illinois EPA) has attached the information you requested on the Baron Blakeslee Company. Should you have any questions regarding this material, please contact Tom Crause at 217/524-1658.

Sincerely,

James M. Salch, L.P.G.
Project Manager
Site Assessment Unit
Federal Site Remedial Section
Division of Remediation Management
Bureau of Land

JMS:jms

GEORGE H. RYAN, GOVERNOR

Seabury, Pals-
847-705-4000
2-7820

White Lake Building
2537 curtil

Pick Marvel

NOTES

⑧ Montauk wood service facility. 5355 Walnut
1979 -

⑨ Sewage treatment east of park

⑩ Montauk lands, parking lot leased from
Mersey Corp 1979 - between buildings

⑪ Marcel Zondagk - Dried of Lucas AFB
Sarget - 520-744-1000 ex 582 -
Baron/Blakeslee → Thermo

⑫ Allied Signal - Morristown N.J. (87)

+ Baron Blakeslee → subsidiary of Allied
Pam Sisiste 973.455-5422

⑬ Pam Cissik @ Honeywell corp
Theraine Robinson → 4-5951 - paralyzed -

⑭ John Nille 317 232-7955 -

+ Bud Incandella - driver for B/B

⑮ Aaron Gear Solvent supplies

+ Joe Pasinto → driver for B/B

+ Long Simulic → driver for B/B - deceased -

+ Ronald Bagasian → BP facility operator

Brown Bleshlee

contacts

- ④ William J. Walker Midwest op manager
- ④ Roy Zekland Dist & Equipment special
- ④ James Cahill 1995 1634 Laramie, Colo.
- + Bob Block - environmental manager
Dave Poley - "allied headquarters"
- ④ John Bartkiewicz 312-448-2820 (home)

Sacros at 1634 Laramie, Colo. ... manufacture
of industrial cleaning equipment since 1969.

1985 - allied acquires BB

1997 - sacros side closes

Parker

Meleen Giltner

815-886-2342

17. Ambesser Ln

Roseville, FL

worked at Rosewood for 24 years 1951-1975...
worked in grading making heavy and vases.

Olivers - Shafter - Rex

white milk substance

Nantause - ~~diff. to~~ charged lubricants in maintenance

Cina

Merrick

Ledyard

Virgin Young

Dennis Cove

Willard

Redell

Waterman Farm

Robert

McMillan

Leeson

Set up

Wallace -

Sat ranch

Mo. Parker

Roseville

815 372-2243

(Caroline returns home)

20838 W Forest Ct, Plain

*

*

Don Bonomoni -

~~Revised~~

605-255-4890

Worked with Raymond from 1960-1998 (retired)

Worked in Machine Shop and other supervisor jobs.

Solvent used to clean hands, tools, and parts.
always drained... stored in below ground tank...
and shipped off site.

Knows of no illegal actions or activities at
the site.

Will not give names of others who worked
there...

MSDS: BELACO TRI

Material Safety Data Sheet

Barron Blakeslee, - 2001 N. Janice Ave. - Melrose Park, IL 60160 (312) 450 3900



DDATE: October, 1987

CCEMICAL NAME AND SYNONYMS:

TTrichloroethylene; trichloroethene

CCAS. NO. 79-01-6

CCEMICAL FAMILY: Halogenated Hydrocarbons

EDITION: 3rd (M004100)

TRADE NAME AND SYNONYMS:

Blaco-Tri

FORMULA: $\text{CHCl}_2=\text{CCl}_2$

DOT SHIPPING NAME: Trichloroethylene

DOT HAZARD CLASS: ORM-A

UN1710-(RQ 10000#/454kg)

SECTION 1 - PHYSICAL DATA

EBOILING POINT @ VAPOR DENSITY (AIR=1):
7760 MM Hg: -4.54

1188°F

FFREEZING/MELTING SOLUBILITY (WEIGHT %
PPOINT: IN WATER):

-123.5°F (-86.4°C)

VAPOR PRESSURE: EVAPORATION RATE:
20°C=57.8mmHg (Ethyl Ether=1) 0.28SPEC. GRAV.
(20°/20°C)

1.465

BULK DENSITY:
@20°C

12.2 lbs./gal.

HEAT OF

SOLUTION:

Not applicable

PH OF
SOLUTIONS:

6.7 to 7.5

VOLUME %

VOLATILE:

100

APPEARANCE AND

ODOR: Clear,

colorless

liquid with an

ether-like

odor

SECTION 2 - HAZARDOUS INGREDIENTS

TTrichloroethylene (Stabilized)

APPROX. %

100

HAZARD DATA

SEE BELOW

NOTE: HAZARD INFORMATION IS BASED ON TEST MIX AND NOT INDIVIDUAL
INGREDIENTS.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FFLASH POINT F (METHOD USED)

None when tested in

accordance with DOT

requirements (See Below)

FLAMMABLE LIMITS IN AIR

(% BY VOLUME) at 100°C

LEL: 7.8 UEL: 52%

at 25°C

LEL: 8.0 UEL: 10.5%

EXTINGUISH. MEDIA:

Water, dry chemical

or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear a NIOSH/MSHA-
approved pressure-demand, self-contained breathing apparatus for possible
exposure to hydrogen chloride and possibly traces of phosgene.UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors concentrated in a confined or
poorly ventilated area can be ignited upon contact with a spark, flame,
or high intensity source of heat. This can occur at concentrations
ranging between 7.8-52% by volume. Decomposition or burning can produce
hydrogen chloride or possibly traces of phosgene.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

MSDS: BLACO PERC

Material Safety Data Sheet

Baron Blakeslee, - 2001 N. Janice Ave., - Melrose Park, IL 60160 (312) 450 3900



DATE: November, 1987
CHEMICAL NAME AND SYNONYMS:
Perchloroethylene; tetrachloroethylene
CAS. NO. 127-18-4
CHEMICAL FAMILY: Halogenated Hydrocarbons

EDITION: 3rd (M004120)
TRADE NAME AND SYNONYMS:
Blaco-Perc

FORMULA: $\text{CCl}_2=\text{CCl}_2$

DOT SHIPPING NAME: Tetrachloroethylene
REPORTABLE QUANTITY: 1 lb.

DOT HAZARD CLASS: ORM-A-UN1897

SECTION 1 - PHYSICAL DATA

| | | | |
|--|--|---|---|
| BOILING POINT @ 760 MM Hg: 250°F 121°C | VAPOR DENSITY(AIR=1): 5.83 | SPEC. GRAV. (20°/20°C) 1.6 | pH OF SOLUTIONS: 6.8 to 8.4 |
| FREEZING/MELTING POINT: -8.2°F -22.3°C | SOLUBILITY (WEIGHT % IN WATER): @25°C 0.015% | BULK DENSITY: 13.6 lbs./gal. @ 20°C | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: at 20°C=14.2 mm Hg (Ethyl Ether=1) 0.09 | EVAPORATION RATE: (Ethyl Ether=1) 0.09 | HEAT OF SOLUTION: Not applicable | APPEARANCE AND ODOR: Clear, colorless liquid with an ether-like odor |

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|--------------------------------|-----------|-------------|
| Perchloroethylene (Stabilized) | 100 | See Below |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|--|--|--|
| FLASH POINT F (METHOD USED) None when tested in accordance with DOT requirements. | FLAMMABLE LIMITS IN AIR (% BY VOLUME) None | EXTINGUISH. MEDIA: For fires involving perchlor, use water, dry chemical or carbon dioxide |
|--|--|--|

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear NIOSH/MSHA pressure-demand self-contained breathing apparatus for possible exposure to hydrogen chloride and possible traces of phosgene.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Perchlor involved in fires can decompose to hydrogen chloride and possible traces of phosgene.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

MSDS: BLACO-THANE

Material Safety Data Sheet

Baron Blakeslee, - 2001 N. Janice Ave., - Melrose Park, IL 60160 (312)450-3900



DATE: November, 1987

CHEMICAL NAME AND SYNONYMS:

1,1,1-Trichloroethane; methylchloroform

CAS. NO. 71-55-6

CHEMICAL FAMILY: Halogenated Hydrocarbons

EDITION: 3rd (M004130)

TRADE NAME AND SYNONYMS:

Blaco-Thane

FORMULA: CH_3CCl_3

DOT SHIPPING NAME: RQ 1,1,1-trichloroethane DOT HAZARD CLASS: ORM-A
Mixture, (contains 1,4-diethylene dioxide) I.D. NUMBER: UN 2831

SECTION 1 - PHYSICAL DATA

BOILING POINT @ VAPOR DENSITY(AIR=1):
760 MM Hg: 4.54

165.4°F

FREEZING/MELTING SOLUBILITY (WEIGHT %
POINT: IN WATER):

-49°F -45°C

Negligible

VAPOR PRESSURE: EVAPORATION RATE:
at 25°C=135mm Hg (Ethyl Ether=1) 0.35

SPEC. GRAV.

1.300-1.320

@ 25°/25°C

BULK DENSITY:

10.80-10.97

lbs/gal. @ 25°C

HEAT OF

SOLUTION:

Not applicable

pH OF

SOLUTIONS:

6.0 to 7.5

VOLUME %

VOLATILE:

100

APPEARANCE AND

ODOR: Clear,

colorless

liquid with an

ether-like

odor

SECTION 2 - HAZARDOUS INGREDIENTS

1,1,1-trichloroethane (Stabilized)

1,4-diethylene dioxide (CAS NO. 123-91-1)

Glycol methylene ether (CAS NO. 646-06-0)

Sec butanol (CAS NO. 78-92-2)

APPROX. %

96

Balance

HAZARD DATA

See Section 5

NOTE: Tested Mixture

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT F (METHOD USED)

None when tested in

accordance with DOT

requirements

FLAMMABLE LIMITS IN AIR

(% BY VOLUME)

LEL: 7%

See Below

UEL: 15%

EXTINGUISH. MEDIA:

Water, dry chemical

or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear a NIOSH/MSHA-approved pressure-demand, self-contained breathing apparatus for possible exposure to hydrogen chloride and possibly traces of phosgene.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a spark, flame, or high intensity source of heat. This can occur at concentrations ranging between 7-15% by volume. Decomposition or burning can produce hydrogen chloride or possibly traces of phosgene.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

Material Safety Data Sheet

Baron Blakeslee, - 2001 N. Janice Ave. - Menomonee Park, IL 60160 (312) 450-3833



DATE: September, 1987

CHEMICAL NAME AND SYNONYMS:

Methylene Chloride; (Dichloromethane)

CAS NO. 75-09-2

CHEMICAL FAMILY: Halogenated Hydrocarbons

DOT SHIPPING NAME: Methylene Chloride

EDITION: 3rd (M004160)

TRADE NAME AND SYNONYMS:

Blaco MC

FORMULA: CH_2Cl_2 DOT HAZARD CLASS: ORM-A
UN 1593

SECTION 1 - PHYSICAL DATA

| | | | |
|--|---|---|---------------------------------------|
| BOILING POINT @ 760 MM Hg: 104°F (39.8°C) | VAPOR DENSITY (AIR=1): at 20°C=2.93 | SPEC. GRAV. 1.32 | pH OF SOLUTIONS: Not Applicable |
| FREEZING/MELTING POINT: -142.1°F (-96.7°C) | SOLUBILITY (WEIGHT % IN WATER): 1.3 | BULK DENSITY: at 20°C 11 lbs/gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: at 20°C=349 mm Hg | EVAPORATION RATE: (BuAC) = 1 - 0.7 | HEAT OF SOLUTION: Not applicable | |

APPEARANCE AND ODOR: Clear, colorless liquid with an ether-like odor at concentrations over 100 ppm

SECTION 2 - HAZARDOUS INGREDIENTS

Methylene Chloride - CAS #75-09-2

APPROX. %

100

HAZARD DATA

See Section 5

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|---|---|---|
| FLASH POINT F (METHOD USED) None (TCC) | FLAMMABLE LIMITS IN AIR (% BY VOLUME) Upper 25 Lower 14 | EXTINGUISH. MEDIA: Carbon Dioxide; Dry Chemicals; or Water Spray |
|---|---|---|

SPECIAL FIRE FIGHTING PROCEDURES:

Pressure-demand, self-contained respiratory protection should be provided for fire fighters in buildings or confined areas where this product is stored. Storage containers exposed to fire should be kept cool with a water spray, in order to prevent pressure build-up.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is nonflammable and nonexplosive under normal conditions of use. At high temperatures, Methylene Chloride decomposes to give off hydrochloric acid as gas plus other toxic and irritating vapors such as phosgene. If storage containers are exposed to excessive heat, over-pressurization of the containers can result.

24-HOUR EMERGENCY ASSISTANCE: 201/4555-2000

Material Safety Data Sheet

Baron Blakeslee, Inc., - 2001 N Janice Ave. - Melrose Park, IL 60160 (312)450 3900



DATE: October, 1987

CHEMICAL NAME AND SYNONYMS:

1,1,1-Trichloroethane; (methylchloroform)

CAS. NO. 71-55-6 & N-Propanol CAS NO. 71-23-8

CHEMICAL FAMILY: Halogenated Hydrocarbons
and Alcohols

DOT SHIPPING NAME: RQ, 1,1,1-trichloroethane
mixture (contains 1,4-diethylene dioxide)

EDITION: 3rd (M006404)

TRADE NAME AND SYNONYMS:

Blaco-Solv 404

FORMULA: $\text{CH}_3\text{CCl}_3/\text{C}_3\text{H}_7\text{OH}$

DOT HAZARD CLASS: ORM-A

I.D. NUMBER: UN 2831

SECTION 1 - PHYSICAL DATA

| | | | |
|---|--|---|---|
| BOILING POINT @ 760 MM Hg: 165.4°F | VAPOR DENSITY (AIR=1): 4.54 | SPEC. GRAV. 1.28-1.30 @ 25°/25°C | pH OF SOLUTIONS: 6.0 to 7.5 |
| FREEZING/MELTING POINT: Not Available | SOLUBILITY (WEIGHT % IN WATER): Approximately 4% | BULK DENSITY: Approx. 10.75 lbs. per gallons @ 25°C | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: at 25°C=30mm Hg | EVAPORATION RATE: (Ethyl Ether=1) 1 | HEAT OF SOLUTION: Not applicable | APPEARANCE & ODOR: Clear, colorless liquid with ether-like odor |

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|------------------------------------|-----------|------------------|
| 1,1,1-trichloroethane (Stabilized) | 93-95 | See Section 4, 5 |
| N-Propanol | 3-5 | See Section 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|--|--|--|
| FLASH POINT F (METHOD USED) None when tested in accordance with DOT requirements | FLAMMABLE LIMITS IN AIR (% BY VOLUME) (Trichloroethane) LEL: 7% UEL: 15% See Below | EXTINGUISH. MEDIA Water, dry chemic. or carbon diox |
|--|--|--|

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear a NIOSH, MSHA-approved pressure-demand, self-contained breathing apparatus for possible exposure to hydrogen chloride and possibly traces of phosgene.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a spark, flame or high intensity source of heat. This can occur at concentration ranging between 7-15% by volume. Decomposition or burning can produce Hydrogen chloride or possibly traces of phosgene.

Material Safety Data Sheet

Baron Blakeslee, Inc., 2001 N. Lamar Ave., Dallas, Texas 75201-1312-450-3900



DATE: November, 1987
 CHEMICAL NAME AND SYNONYMS:
 Blend of 1,1,1-Trichloroethane,
 Trichlorotrifluoroethane, Methyl Alcohol,
 and ethyl alcohol
 CHEMICAL FAMILY: Halogenated Solvents
 and Alcohols

EDITION: 3rd (M006413)
 TRADE NAME AND SYNONYMS:
 Blaco-Solv 413

FORMULA: $\text{CH}_3\text{CCl}_3; \text{CCl}_2\text{FCClF}_2; \text{CH}_3\text{OH}; \text{C}_2\text{H}_5\text{OH}$

DOT SHIPPING NAME: RQ, 1,1,1-trichloroethane DOT HAZARD CLASS: ORM-A
 Mixture (contains 1,4-Diethylene Dioxide) I.D. NUMBER: UN 2831

SECTION 1 - PHYSICAL DATA

| | | | |
|--|---|--|---|
| BOILING POINT @ 760 MM Hg: 122°F 50°C | VAPOR DENSITY (AIR=1): 3.7 | SPEC. GRAV. 1.242 at 60°F | pH OF SOLUTIONS: neutral |
| FREEZING/MELTING POINT: Less than -49°F (-45°C) | SOLUBILITY (WEIGHT % IN WATER): 2.1 | BULK DENSITY: at 77°F lbs./gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: 139 mm Hg (calculated) @ 20°C | EVAPORATION RATE: (Ethyl Ether=1) 2 | HEAT OF SOLUTION: Not applicable | APPEARANCE AND ODOR: Clear, colorless liquid with an ether-like odor |

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|------------------------------------|-----------|---------------|
| 1,1,1-trichloroethane (Stabilized) | 58 | See Section 5 |
| Trichlorotrifluoroethane | 25 | See Section 5 |
| Methyl Alcohol | 8.5 | See Section 5 |
| Ethyl Alcohol | 8.5 | See Section 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| FLASH POINT F (METHOD USED) | FLAMMABLE LIMITS IN AIR (% BY VOLUME) | EXTINGUISH. MEDIA: |
|--|---------------------------------------|---|
| None when tested in accordance with DOT | Not Available | Water, dry chemical CO ₂ requirements |

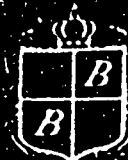
SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear a NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus for possible exposure to hydrogen chloride, hydrogen fluoride, and possibly traces of phosgene.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a spark, flame, or high intensity source of heat. This can occur at concentrations ranging between 7-15% by volume. Decomposition or burning can produce Hydrogen chloride, hydrogen fluoride or possibly traces of phosgene.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

Material Safety Data Sheet

Baron Blakeslee, Inc., - 2001 N. Jance Ave. - Melrose Park, IL 60160 (312) 450-3200



DATE: February, 1988
 CHEMICAL NAME AND SYNONYMS:
 Methylene Chloride and Methyl Alcohol
 CHEMICAL FAMILY: Halogenated Hydrocarbons
 DOT SHIPPING NAME: Methylene chloride
 mixture

EDITION: 3rd (M005139)
 TRADE NAME AND SYNONYMS:
 Blaco-Strip 139
 FORMULA: $\text{CH}_2\text{Cl}_2, \text{CH}_3\text{OH}$
 DOT HAZARD CLASS: ORM-A
 I.D. NUMBER: UN 1593

SECTION 1 - PHYSICAL DATA

| | | | |
|---|--|--|--------------------------------|
| BOILING POINT @ 760 MM Hg: 99.5°F | VAPOR DENSITY(AIR=1): 2.8 | SPEC. GRAV. 1.27 | pH OF SOLUTIONS: Neutral |
| FREEZING/MELTING POINT: N/A | SOLUBILITY (WEIGHT % IN WATER): Approx. 0.2% | BULK DENSITY: 10.5#/Gal. @ 77°F | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: mm Hg at 20°C 380 | EVAPORATION RATE: (CCl_4 =1) 1.4 | HEAT OF SOLUTION: Not applicable | |

APPEARANCE AND ODOR: Colorless liquid with ethereal and faint sweetish odor

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|--------------------------------------|-----------|-------------------|
| Methylene Chloride - CAS No. 75-09-2 | 92-93 | See Section 4 & 5 |
| Methyl Alcohol - CAS No. 67-56-1 | 7-8 | See Section 4 & 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT°F (METHOD USED)
 None to boiling point (Closed Cup)

FLAMMABLE LIMITS IN AIR
 (% BY VOLUME) N/A

EXTINGUISHING MEDIA: For fires involving Blaco-Strip 139 use water, dry chemicals, CO_2

SPECIAL FIRE FIGHTING PROCEDURES: Pressure-demand, self-contained respiratory protection should be provided for fire fighters in buildings or confined areas where this product is stored. Storage containers exposed to fire should be kept cool with a water spray, in order to prevent pressure build-up.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is non-flammable and non-explosive under normal conditions of use. At high temperatures, Methylene Chloride decomposes to give off hydrochloric acid as gas plus other toxic and irritating vapors such as phosgene. If storage containers are exposed to excessive heat, over-pressurization of the containers can result.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

Material Safety Data Sheet

Baton Blakeslee, Inc., 20001 N. Janice Ave., Melrose Park, IL 60161, 312-550-2000



DATE: February, 11988
 CHEMICAL NAME AND SYNONYMS:
 Methylene Chloride, Methyl Alcohol and
 Isopropylamine
 CHEMICAL FAMILY: Halogenated Hydrocarbons
 Alcohols, Amines
 DOT SHIPPING NAME: Methylene Chloride
 Mixture

EDITION: 3rd (M005140)
 TRADE NAME AND SYNONYMS:
 Blaco-Strip 139A
 FORMULA: $\text{CH}_2\text{Cl}_2, \text{CH}_3\text{OH},$
 $(\text{CH}_3)_2\text{CHNH}_2$
 DOT HAZARD CLASS: ORM-A
 I.D. NUMBER: UN 1593

SECTION 1 - PHYSICAL DATA

| | | | |
|---|--|---|------------------------------|
| BOILING POINT @ 760 MM Hg: 99.5°F | VAPOR DENSITY(AIR=1): 2.8 | SPEC. GRAV. 1.27 | PH OF SOLUTIONS: 10 |
| FREEZING/MELTING POINT: Not Available | SOLUBILITY (WEIGHT % IN WATER): Approx. 0.2% | BULK DENSITY: Approx. 10.6 lbs/gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: mm Hg at 20°C 380 | EVAPORATION RATE: (CCl ₄ =1) 1.5 | HEAT OF SOLUTION: Not applicable | |
| APPEARANCE AND ODOR: Colorless liquid with ethereal and faint sweetish odor | | | |

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|--------------------------------------|-----------|-------------------|
| Methylene Chloride - CAS No. 75-09-2 | 92-93 | See Section 4 & 5 |
| Methyl Alcohol - CAS No. 67-56-1 | 7 | See Section 4 & 5 |
| Isopropylamine - CAS No. 75-31-0 | 0.1 | See Section 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT °F (METHOD USED)
 None to Boiling Point

FLAMMABLE LIMITS IN AIR
 (% BY VOLUME) (Methylene
 Chloride) LEL: 12% UEL: 19%

EXTINGUISHING MEDIA: For fires involving Blaco-Strip 139A use water, dry chemicals, CO₂

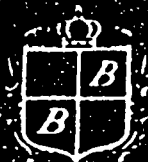
SPECIAL FIRE FIGHTING PROCEDURES: Pressure-demand, self-contained respiratory protection should be provided for fire fighters in buildings or confined areas where this product is stored. Storage containers exposed to fire should be kept cool with a water spray, in order to prevent pressure build-up.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

MSDS: BLACO-TRON TA

Material Safety Data Sheet

Baron Blakelee, - 2001 N. Janice Ave. - Melrose Park, IL 60160 (312) 450 3900



DATE: September, 1987

CHEMICAL NAME AND SYNONYMS:

Blend of Trichlorotrifluoroethane,
and Acetone

CHEMICAL FAMILY: Halogenated Hydrocarbons/
Ketones

EDITION: 2nd (M002579)

TRADE NAME AND SYNONYMS:

Blaco-Tron TA

FORMULA: $C_2Cl_3F_3/CH_3COCH_3$

DOT SHIPPING NAME: Not regulated by DOT

DOT HAZARD CLASS: None

SECTION 1 - PHYSICAL DATA

| | | | |
|--|---|--|---|
| BOILING POINT @ 760 MM Hg: 110.5°F | VAPOR DENSITY((AIR=1): Approx. 6.0 | SPEC. GRAV. 1.44 (Liquid) | pH OF SOLUTIONS: Neutral |
| FREEZING/MELTING POINT: G.T. -35°C | SOLUBILITY (WEIGHT % IN WATER): 0.25 | BULK DENSITY: Approx. 11.7 lbs./gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: Approx 385 mm Hg (at 21.1°C) | EVAPORATION RATE: Approx. 1.3 (Butyl Acetate=1) | HEAT OF SOLUTION: Not Available | APPEARANCE AND ODOR: Color- less liquid with ethereal and faint sweetish odor. |

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|--|-----------|---------------|
| Trichlorotrifluoroethane - CAS No. 76-13-1 | 90 | See Section 5 |
| Acetone - CAS No. 67-64-1 | 10 | See Section 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|---|---|--|
| FLASH POINT F (METHOD USED) Non-Flammable (Closed Cup) | FLAMMABLE LIMITS IN AIR (% BY VOLUME) Not Available | EXTINGUISH. MEDIA: Carbon Dioxide; Dry Chemical; or Water |
|---|---|--|

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus approved by NIOSH. Use water spray to keep containers cool. Keep any spillage away from fire and heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Will decompose at temperatures above 250°F. Decomposition products can include hydrochloric and hydrofluoric acid and phosgene.

24-HOUR EMERGENCY ASSISTANCE: 2001/455-2000

MSDS: BLACO-TRON TCM

Material Safety Data Sheet

Baron Blakeslee, - 2001 N. Janice Ave., - Melrose Park, IL 60160 (312)450 3900



DATE: September, 1987
CHEMICAL NAME AND SYNONYMS:
Blend of Methylene Chloride
Trichlorotrifluoroethane and
Cyclopentane
CHEMICAL FAMILY:
Halogenated Hydrocarbons

EDITION: 3rd (M002592)
TRADE NAME AND SYNONYMS:
Blaco-Tron TCM

FORMULA: $\text{CH}_2\text{Cl}_2/\text{C}_2\text{Cl}_3\text{F}_3/$
 C_5H_{10}

DOT SHIPPING NAME: Methylene chloride
Mixture

DOT HAZARD CLASS: ORM-A
UN 1593

SECTION 1 - PHYSICAL DATA

| | | | |
|---|---|---|--------------------------------|
| BOILING POINT @ 760 MM Hg: 97.3°F | VAPOR DENSITY (AIR=1): 4.3 | SPEC. GRAV. 1.29 | pH OF SOLUTIONS: Neutral |
| FREEZING/MELTING POINT: Not available | SOLUBILITY (WEIGHT % IN WATER): Approx. .10 | BULK DENSITY: Approx. 10.75 lbs./gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: 424 mm Hg at 20°C | EVAPORATION RATE: (Carbon Tetrachloride=100) 200 | HEAT OF SOLUTION: Not available | |

APPEARANCE AND ODOR: Colorless liquid with ethereal and faint sweetish odor.

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|--|-----------|---------------|
| Methylene Chloride - CAS No. 75-09-2 | 52 | See Section 5 |
| Trichlorotrifluoroethane - CAS No. 76-13-1 | 39 | See Section 5 |
| Cyclopentane, technical - CAS No. 287-92-3 | 9 | See Section 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|--|--|--|
| FLASH POINT F (METHOD USED) None (Closed Cup) | FLAMMABLE LIMITS IN AIR (% BY VOLUME) Not Determined | EXTINGUISH. MEDIA: Carbon Dioxide, Dry Chemical, or Water Spray |
|--|--|--|

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters should wear NIOSH pressure demand self-contained breathing apparatus for possible exposure to hydrochloric and hydrofluoric acids and phosgene. Use water spray to keep containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Will decompose at temperatures above 250°F. Decomposition products can include hydrochloric and hydrofluoric acid and phosgene. If storage containers are exposed to excessive heat, over-pressurization of the containers can result.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

MSDS: BLACO-TRON TAS

Material Safety Data Sheet

Baron Blakeslee, Inc., 2001 N. Janice Ave., Melrose Park, IL 60160 (312) 350-1900



DATE: August, 1987
CHEMICAL NAME AND SYNONYMS:
Blend of Trichlorotrifluoroethane,
Acetone and Comsol NM 55 (55 Nitromethane)

EDITION: 3rd (M002578)
TRADE NAME AND SYNONYMS:
Blaco-Tron TAS

CHEMICAL FAMILY: Halogenated Hydrocarbons

FORMULA: $C_2Cl_3F_3/CH_3COCH_3/$
 CH_3NO_2

DOT SHIPPING NAME: Not regulated

DOT HAZARD CLASS: None

SECTION 1 - PHYSICAL DATA

| | | | |
|--|--|--|---|
| BOILING POINT @ 760 MM Hg: 110.5°F | VAPOR DENSITY(AIR=1): Approx. 6.0 | SPEC. GRAV. 1.44 (Liquid) | pH OF SOLUTIONS: Neutral |
| FREEZING/MELTING POINT: G.T. -35°C | SOLUBILITY (WEIGHT % IN WATER): 0.25 | BULK DENSITY: Approx. 12 lbs./gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: Approx 385 (at 21.1°C) | EVAPORATION RATE: Approx. 1.3 | HEAT OF SOLUTION: Not available | APPEARANCE AND ODOR: Color- less liquid with ethereal and faint sweetish odor. |

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|--|-----------|---------------|
| Trichlorotrifluoroethane - CAS No. 76-13-1 | 89.5 | See Section 5 |
| Acetone - CAS No. 67-64-1 | 10.0 | See Section 5 |
| Nitromethane - CAS No. 75-52-5 | 0.5 | See Section 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|--|---|--|
| FLASH POINT F (METHOD USED) Non-Flammable | FLAMMABLE LIMITS IN AIR (% BY VOLUME) Not Available | EXTINGUISH. MEDIA: Carbon Dioxide; Dry Chemical; or Water |
|--|---|--|

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus approved by NIOSH. Use water spray to keep containers cool. Keep any spillage away from fire and heat.

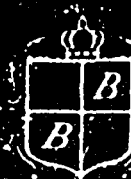
UNUSUAL FIRE AND EXPLOSION HAZARDS: Will decompose at temperatures above 250°F. Decomposition products can include hydrochloric and hydrofluoric acid and phosgene.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

MSDS: BLACO-TRON TE-35

Material Safety Data Sheet

Baron Blakeslee, Inc., 2001 N. Janice Ave., -- Melrose Park, IL 60160 (312) 450 3400



DATE: August, 11987

CHEMICAL NAME AND SYNONYMS:Blend of Trichlorotrifluoroethane,
ethyl alcohol, and methyl alcohol**CHEMICAL FAMILY:**

Halogenated Hydrocarbons/Alcohols

EDITION: 2nd (M008030)

TRADE NAME AND SYNONYMS:

Blaco-Tron TE-35

FORMULA: $C_2Cl_3F_3/C_2H_5OH/$
 CH_3OH

DOT SHIPPING NAME: Combustible Liquid, NOS DOT HAZARD CLASS: NA 1993

SECTION 1 - PHYSICAL DATA

| | | | |
|---|--|--|--------------------------------|
| BOILING POINT @ 760 MM Hg: 119°F | VAPOR DENSITY(AIR=1): 3.0 | SPEC. GRAV. 1.17 (liquid) | pH OF SOLUTIONS: Neutral |
| FREEZING/MELTING POINT: Below -76°C | SOLUBILITY (WEIGHT % IN WATER): 0.028 | BULK DENSITY: Approx. 9.75 lbs./gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: 360 at 70°F | EVAPORATION RATE: (Ether = 1) (time to evaporate):15 | HEAT OF SOLUTION: Not available | |

APPEARANCE AND ODOR: Colorless liquid with ethereal and faint sweetish odor.

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|--|-----------|---------------|
| Trichlorotrifluoroethane - CAS No.76-13-1 | 65 | See Section 5 |
| Ethyl alcohol,denatured grade - CAS No.64-17-5 | 31 | See Section 5 |
| Methyl alcohol - CAS No. 67-56-1 | 3 | See Section 5 |

May also contain other minor ingredients such as Methyl Isobutyl Ketone in concentrations less than 0.5% that are used to denature the ethyl alcohol component.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|---|---|---|
| FLASH POINT°F (METHOD USED) 140-145°F (Closed Cup) | FLAMMABLE LIMITS IN AIR (% BY VOLUME) Not Available | EXTINGUISH. MEDIA: Carbon dioxide; dry chemical or water spray |
|---|---|---|

SPECIAL FIRE FIGHTING PROCEDURES:

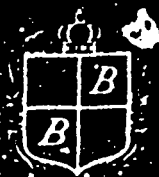
Fire fighters should wear NIOSH pressure demand self-contained breathing apparatus for possible exposure to hydrochloric and hydrofluoric acids and phosgene. Use water spray to keep containers cool.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

MSDS: BLACO-TRON TE

Material Safety Data Sheet

Baron Blakeslee, - 222 - 1st Ave. - Melrose Park, IL 60160 (312) 450 3900



DATE: September, 1987
CHEMICAL NAME AND SYNONYMS:
Blend of Trichlorotrifluoroethane
and ethyl alcohol containing a
small amount of methyl alcohol
CHEMICAL FAMILY:
Halogenated Hydrocarbons/Alcohols

EDITION: 2nd (M008040)
TRADE NAME AND SYNONYMS:
Blaco-Tron TE

FORMULA: $C_2Cl_3F_3/C_2H_5OH/CH_3OH$

DOT SHIPPING NAME: Not regulated

DOT HAZARD CLASS: Not
Applicable

SECTION 1 - PHYSICAL DATA

| | | | |
|---|---|---|--|
| BOILING POINT @ 760 mm Hg: 112°F | VAPOR DENSITY(AIR=1): 6.0 | SPEC. GRAV. 1.527 (liquid) | pH OF SOLUTIONS: Neutral |
| FREEZING/MELTING POINT: Below -35°C | SOLUBILITY (WEIGHT % IN WATER): 0.028 | BULK DENSITY: Approx. 12.7 lbs./gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: 365 mm Hg at 20°C | EVAPORATION RATE: (Ether = 1) (time to evaporate): 2.0 | HEAT OF SOLUTION: Not available | |
| APPEARANCE AND ODOR: Colorless liquid with ethereal and faint sweetish odor. | | | |

SECTION 2 - HAZARDOUS INGREDIENTS

APPROX. % HAZARD DATA

| | | |
|---|------|---------------|
| Trichlorotrifluoroethane-CAS No.76-13-1 | 96.0 | See Section 5 |
| Ethyl alcohol, denatured grade(SDA-30)-CAS No.64-17-5 | 4.0 | See Section 5 |
| Methyl alcohol (minor ingredient SDA-30) CAS No. 67-56-1 | 0.4 | See Section 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|---|---|--|
| FLASH POINT F (METHOD USED) Non-Flammable | FLAMMABLE LIMITS IN AIR (% BY VOLUME) Not Available | EXTINGUISH. MEDIA: Carbon dioxide; dry chemical or water spray |
|---|---|--|

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters should wear NIOSH pressure demand self-contained breathing apparatus for possible exposure to hydrochloric and hydrofluoric acids and phosgene. Use water spray to keep containers cool.

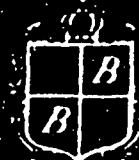
UNUSUAL FIRE AND EXPLOSION HAZARDS:

Will decompose at temperatures above 250°F. Decomposition products can include hydrochloric and hydrofluoric acid and phosgene.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

Material Safety Data Sheet

Baron Blakeslee, Inc., 2001 N. Janice Ave., Melrose Park, IL 60160 (312) 450-3900



DATE: September, 1987
 CHEMICAL NAME AND SYNONYMS:
 Blend of Trichlorotrifluoroethane
 and Ethyl Alcohol containing a
 small amount of methyl alcohol
 CHEMICAL FAMILY:

Halogenated hydrocarbons/Alcohols

DOT SHIPPING NAME: Not regulated

EDITION: 2nd (M002610)
 TRADE NAME AND SYNONYMS:
 Blaco-Tron TE Plus

FORMULA: $C_2Cl_3F_3/C_2H_5OH/$
 CH_3OH

DOT HAZARD CLASS: N/A

SECTION 1 - PHYSICAL DATA

| | | | |
|---|---|--|--------------------------------|
| BOILING POINT @ 760 MM Hg: 113°F | VAPOR DENSITY(AIR=1): 5.9 | SPEC. GRAV. 1.43 (liquid) | pH OF SOLUTIONS: Neutral |
| FREEZING/MELTING POINT: Below -35°C | SOLUBILITY (WEIGHT % IN WATER): Approx. 0.028 | BULK DENSITY: Approx. 11.9 lbs./gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: 220 | EVAPORATION RATE: (Acetone = 1) (time to evaporate): 1.8 | HEAT OF SOLUTION: Not available | |

APPEARANCE AND ODOR: Colorless liquid with ethereal and faint sweetish odor.

SECTION 2 - HAZARDOUS INGREDIENTS

| | Approx. % | HAZARD DATA |
|---|-----------|---------------|
| Trichlorotrifluoroethane | 90.0 | See Section 5 |
| Ethyl alcohol, denatured grade (SDA-30) | 9.0 | See Section 5 |
| Methyl alcohol (minor ingredient SDA-30, above) | 1.0 | See Section 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|--|---|---|
| FLASH POINT F (METHOD USED) Non-Flammable | FLAMMABLE LIMITS IN AIR (% BY VOLUME) Not Available | EXTINGUISH. MEDIA: Carbon Dioxide; Dry Chemical; Water Spray |
|--|---|---|

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters should wear NIOSH pressure demand self-contained breathing apparatus for possible exposure to hydrochloric and hydrofluoric acids and phosgene. Use water spray to keep containers cool.

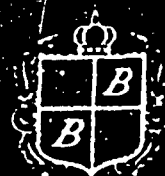
UNUSUAL FIRE AND EXPLOSION HAZARDS:

Will decompose at temperatures above 250°F. Decomposition products can include hydrochloric and hydrofluoric acid and phosgene.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

Material Safety Data Sheet

Baron Blakeslee, - 2001 N. Janice Ave., - Melrose Park, IL 60160 (312)450-3900



DATE: September, 1987
 CHEMICAL NAME AND SYNONYMS:
 Blend of Trichlorotrifluoroethane
 and Methylene Chloride
 CHEMICAL FAMILY:
 Halogenated Hydrocarbons
 DOT SHIPPING NAME: Methylene chloride
 Mixture

EDITION: 3rd (M002511)
 TRADE NAME AND SYNONYMS:
 Blaco-Tron TMC

FORMULA: $C_2Cl_3F_3/CH_2Cl_2$

DOT HAZARD CLASS: ORM-A
 UN 1593

SECTION 1 - PHYSICAL DATA

| | | | |
|--|---|--|--------------------------------|
| BOILING POINT @ 760 MM Hg: 97.7°F | VAPOR DENSITY(AIR=1): 4.7 | SPEC. GRAV. 1.42 | pH OF SOLUTIONS: Neutral |
| FREEZING/MELTING POINT: Not av labl. | SOLUBILITY (WEIGHT % IN WATER): Approx. .10 | BULK DENSITY: Approx. 11.8 lbs./gal. | VOLUME % VOLATILE: 100 |
| VAPOR PRESSURE: 500 mm Hg at 20°C | EVAPORATION RATE: Carbon Tetrachloride 100 160 | HEAT OF SOLUTION: Not available | |

APPEARANCE AND ODOR: Colorless liquid with ethereal and faint sweetish odor.

SECTION 2 - HAZARDOUS INGREDIENTS

| | APPROX. % | HAZARD DATA |
|--|-----------|---------------|
| Trichlorotrifluoroethane - CAS No. 76-13-1 | 50.5 | See Section 5 |
| Methylene Chloride - CAS No. 75-09-2 | 49.5 | See Section 5 |

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

| | | |
|--|--|---|
| FLASH POINT F (METHOD USED) None (Closed Cup) | FLAMMABLE LIMITS IN AIR (% BY VOLUME) Not Determined | EXTINGUISH. MEDIA: Carbon dioxide; dry chemical or water spray |
|--|--|---|

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters should wear NIOSH pressure demand self-contained breathing apparatus for possible exposure to hydrochloric and hydrofluoric acids and phosgene. Use water spray to keep containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Will decompose at temperatures above 250°F. Decomposition products can include hydrochloric and hydrofluoric acid and phosgene. If storage containers are exposed to excessive heat, over-pressurization of the containers can result.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

GENESOLV® A Solvent
A. GENERAL INFORMATION

| | | | |
|--|---------------------------------------|---|--|
| TRADE NAME (COMMON NAME) GENESOLV® A Solvent | | <input checked="" type="checkbox"/> CAS NO. <input type="checkbox"/> ALLIED PRODUCT CODE # 75-69-4 | |
| CHEMICAL NAME AND/OR SYNONYM Trichlorofluoromethane | | Allied Product Code: 196-007850. Synonyms: Fluorocarbon 11; Refrigerant 11; Propellant 11; Fluorotrichloromethane. | |
| FORMULA CCl₃F | | MOLECULAR WEIGHT 137.4 | |
| ADDRESS (No., STREET, CITY, STATE AND ZIP CODE) ALLIED-SIGNAL INC. Engineered Materials Sector P.O. Box 1139R Morristown, N.J. 07960 | | | |
| CONTACT Product Safety Department | PHONE NUMBER (201) 455-4157 | LAST ISSUE DATE August, 1985 | CURRENT ISSUE DATE January, 1987 |

B. FIRST AID MEASURES

| | |
|---|--|
| EMERGENCY PHONE NUMBER (201) 455-2000 | |
| <p>Inhalation: Immediately remove patient to fresh air. If breathing has stopped, give mouth-to-mouth resuscitation. Give oxygen, as necessary, provided a qualified operator is available. Call a physician. Do not give adrenaline (epinephrine).</p> <p>Eyes: Promptly flush with large amounts of water, lifting eyelids occasionally, and continue flushing for 15 minutes. If irritation symptoms persist, consult a physician.</p> <p>Skin: Promptly wash with soap and water, then flush with water until all chemical is removed. Remove contaminated clothing and wash before reuse.</p> <p>Ingestion: If conscious, immediately give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Call a physician.</p> | |

C. HAZARDS INFORMATION
HEALTH

| | |
|--|---|
| INHALATION Vapors, when inhaled, are slightly irritating to lungs. Breathing concentrations approaching 10% in air can cause dizziness, difficult breathing, drowsiness and possibly narcosis. See Section K for a more detailed discussion. | |
| INGESTION This will upset and irritate the gastrointestinal tract. Estimated to have moderate toxicity (see Section K), it is likely to show most of the same symptoms as those for inhalation. | |
| SKIN Excessive contact may cause irritation (due to defatting action) and possible frostbite (due to refrigeration effect of evaporation). | |
| EYES Liquid contact will irritate. Rabbit test data are available - Reference (a). Vapors are estimated to be mildly irritating. | |
| PERMISSIBLE CONCENTRATION, AIR (SEE SECTION J) ACGIH/TLV: 1000 ppm (ceiling). | OSHA/TWA: 1000 ppm. BIOLOGICAL Action Level: None established. |
| UNUSUAL CHRONIC TOXICITY A NCI-sponsored bioassay on carcinogenicity (rats) showed no carcinogenicity. Subacute data are available - Reference (a). | |

PRODUCT SAFETY
DATA SHEET

GENESOLV® D SOLVENT

A. GENERAL INFORMATION

| | | | |
|---|--------------------------------|--|-------------------------------------|
| TRADE NAME (COMMON NAME) GENESOLV® D Solvent (various grades) | | <input checked="" type="checkbox"/> C.A.S. NO. <input type="checkbox"/> ALLIED PRODUCT CODE # 76-13-1 | |
| CHEMICAL NAME AND/OR SYNONYM Trichlorotrifluoroethane Synonyms: Fluorocarbon 113, Refrigerant 113, Propellant 113. | | | |
| FORMULA C ₂ Cl ₃ F ₃ | | MOLECULAR WEIGHT 187.4 | |
| ADDRESS (Name, Street, City, State and Zip Code) ALLIED-SIGNAL INC. Engineered Materials Sector P.O. Box 1139R Morristown, N.J. 07960 | | | |
| CONTACT Product Safety Department | PHONE NUMBER (201) 455-4157 | LAST ISSUE DATE October, 1985 | CURRENT ISSUE DATE January, 1987 |

B. FIRST AID MEASURES

| | |
|--|--|
| <p>Inhalation: Remove patient promptly to fresh air. If breathing has stopped, give artificial respiration, preferably mouth-to-mouth. Give oxygen as necessary, provided a qualified operator is available. Call a physician. Do not give adrenaline (epinephrine).</p> <p>Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally. If symptoms persist, consult a physician.</p> <p>Skin: Flush skin with water until all chemical is removed. Remove contaminated clothing and wash before reuse.</p> <p>Ingestion: If conscious, induce vomiting immediately by giving two glasses of water, and touching finger to back of throat. Call a physician.</p> | EMERGENCY PHONE NUMBER (201) 455-2000 |
|--|--|

C. HAZARDS INFORMATION

HEALTH

| | |
|--|---|
| INHALATION At low levels (human, @ 2500 ppm, 0.25-1.0 hours), drowsiness, loss of concentration, "heaviness" in the head have been experienced. Also, at high levels, cardiac effects are reported - Reference (a). For further toxicity data, see page 5. | |
| INGESTION May cause discomfort (see vapor pressure, Section F). May also give some of the same symptoms and toxicity as those for inhalation above. LD ₅₀ (rat): 43 g/kg - Reference (b). | |
| SKIN Irritant: excessive contact may cause defatting. Rabbit irritation data (mild) are reported in reference (b). | |
| EYES Vapor may act as mild irritant. Liquid will irritate eyes and may cause conjunctivitis. | |
| PERMISSIBLE CONCENTRATION AIR (SEE SECTION J) ACGIH/TLV: the same with a Short-Term Exposure Limit (STEL) of 1250 ppm. | OSHA/TWA: 1000 ppm BIOLOGICAL Action Level: None established. |
| UNUSUAL CHRONIC TOXICITY See Section K for subacute (inhalation) data and further discussion. | |

PRODUCT SAFETY
DATA SHEET

GENESOLV® DFX SOLVENT

A. GENERAL INFORMATION

| | | | |
|--|--------------------------------|--|-----------------------------------|
| TRADE NAME (COMMON NAME) GENESOLV® DFX Solvent | | <input checked="" type="checkbox"/> C.A.S. NO. <input type="checkbox"/> ALLIED PRODUCT CODE # See Section H for components. | |
| CHEMICAL NAME AND/OR SYNONYM Constant Boiling Mixture of Trichlorotrifluoroethane (90.9 Wt. %) / Methanol (5.9 Wt. %) / Isohexane (2.0 Wt. %) / Acetone (1.0 Wt. %) / Nitromethane (0.2 Wt. %). | | | |
| FORMULA N.A. — Mixture — See Section H for components. | | MOLECULAR WEIGHT N.A. — Mixture See Section H. | |
| ADDRESS (No., STREET, CITY, STATE AND ZIP CODE) ALLIED-SIGNAL INC. Engineered Materials Sector P.O. Box 1139R Morristown, N.J. 07960 | | | |
| CONTACT Product Safety Department | PHONE NUMBER (201) 455-4157 | LAST ISSUE DATE March, 1986 | CURRENT ISSUE DATE April, 1987 |

B. FIRST AID MEASURES

| | |
|--|--|
| EMERGENCY PHONE NUMBER (201) 455-2000 | |
| <p><u>Inhalation:</u> Promptly remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, provided a qualified operator is available. Do not give epinephrine (adrenaline).</p> <p><u>Skin and Eye Contact:</u> Immediately flush eyes with plenty of water for at least 15 minutes, occasionally holding eyelids apart to assist irrigation. Wash skin with soap and water and flush with water until all chemical is removed. Remove any contaminated clothing and wash before reuse.</p> <p><u>Ingestion:</u> If conscious, induce vomiting by giving two glasses of warm water and touching finger to back of throat. Avoid stimulants. Never give anything by mouth to an unconscious person. Call a physician.</p> | |

C. HAZARDS INFORMATION

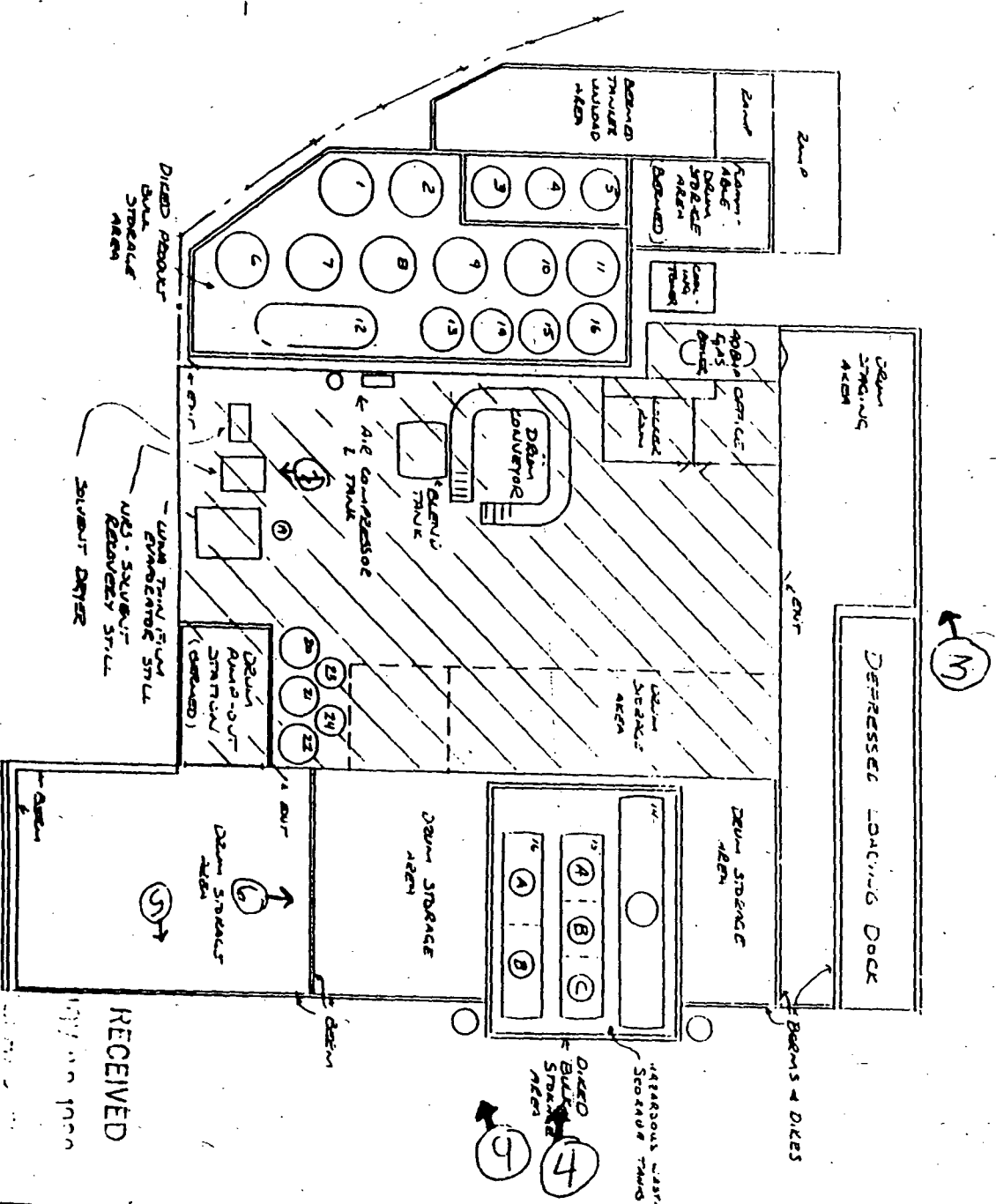
HEALTH

| | |
|---|--|
| INHALATION At low concentration levels, drowsiness, headache, nausea, loss of concentration and flushing of the skin may result. At high levels, intoxication, central nervous system (CNS) depression, cardiac arrhythmia (which can be fatal) may occur. Vapors can displace oxygen in the air resulting in a suffocation hazard. See Section K for further discussion. | |
| INGESTION May cause discomfort. Although relatively low in oral toxicity, similar symptoms as those described for inhalation may be experienced, including central nervous system depression with large doses; respiratory failure may also occur. Methanol poison hazard: See Section H. (Methanol cannot be made non-poisonous.) | |
| SKIN Irritant: excessive or prolonged contact may cause defatting, erythema (reddening of the skin) or dermatitis. | |
| EYES Vapor may act as a mild irritant. Liquid contact will irritate eyes and may cause conjunctivitis. | |
| PERMISSIBLE CONCENTRATION, AIR (SEE SECTION J) A TLV of 480 ppm has been calculated in-house, based on TLV's of components. | BIOLOGICAL Action Level: None established for mixture. See Section H for methanol and acetone components. |
| UNUSUAL CHRONIC TOXICITY Damage to the pancreas and kidneys has been reported for methanol ingestion. | |

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